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APPLICATION NO.	F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/074,884		02/13/2002	Krishnaswamy Ramkumar	5298-08000 PM01040	6510	
35617	7590	12/17/2004		EXAM	EXAMINER	
DAFFER :	MCDAN	EIL LLP	ERDEM	ERDEM, FAZLI		
P.O. BOX			ART UNIT	PAPER NUMBER		
AUSTIN, TX 78768					FAFER NUMBER	
				2826		
			DATE MAILED: 12/17/200	DATE MAILED: 12/17/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)						
	10/074,884	RAMKUMAR						
Office Action Summary	Examiner	Art Unit						
	Fazli Erdem	2826						
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1) Responsive to communication(s) filed on 24 Se	eptember 2004.							
2a)☐ This action is FINAL . 2b)☒ This	action is non-final.							
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.						
Disposition of Claims								
4)⊠ Claim(s) <u>6-12,15,17-27 and 30-35</u> is/are pendi	ng in the application							
4a) Of the above claim(s) is/are withdrawn from consideration.								
5)⊠ Claim(s) <u>6-12,15,17,18,26,27 and 30-35</u> is/are allowed.								
6)⊠ Claim(s) <u>19 and 21</u> is/are rejected.								
7)⊠ Claim(s) <u>20 and 22-25</u> is/are objected to.								
8) Claim(s) are subject to restriction and/or	election requirement.							
Application Papers								
9) The specification is objected to by the Examine	•							
		- - - - - -						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
Priority under 35 U.S.C. § 119	•							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the state of t	of the certified copies not receive	d.						
Notice of References Cited (PTO-892)	4) Interview Summary							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da	te atent Application (PTO-152)						
Paper No(s)/Mail Date	6) Other:	(F. 102)						

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DETAILED ACTION

Allowable Subject Matter

- 1. Claims 6-12, 15, 17, 18, 26, 27 and 30-35 allowed.
- 2. Claims 20 and 22-25 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 19 and 21 rejected under 35 U.S.C. 103(a) as being unpatentable over Raajmakers et al. (2002/00521124) in view of Halliyal et al. (6,319,775).

Regarding Claims 19 and 21, Raajmakers et al. disclosed in SITU dielectric stacks where in paragraph 21 and claims 4 and 25, it is disclosed deposition of oxide layer and deposition of nitride layer on oxide layer with different temperatures. Raajmakers et al. fail to disclose the required transferring of substrate to a different chamber between the deposition of oxide and nitride layers. However, Halliyal et al. disclose nitridation process for fabricating an ONO floating-gate electrode in a two-bit EEPROM device where clams 5 and 9 the required transferring method is disclosed.

It would have been obvious to one of having ordinary skill in the art at the time the invention was made to include the required transfer method in Raajmakers et al. as Application/Control Number: 10/074,884 Page 3

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taught by Halliyal et al. in order manufacture a semiconductor device with increased

reliability.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Fazli Erdem whose telephone number is (571) 272-1914. The

examiner can normally be reached on M - F 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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December 10, 2004